

Show 531

THE
**SKEPTIC
ZONE**
PODCAST

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23 Dec 2018



The Skeptic Zone Podcast
Show 531 - 23 December 2018

No Jab No Play
Update with Heidi Robertson

Letter from Britt Hermes

Maynard
with Science Educator
Tom Gordon at SitP

Alt. Med. warning
from the AMA

Britt Hermes

1
00:00:17,140 --> 00:00:09,120
welcome to the skeptic zone the podcast

2
00:00:30,220 --> 00:00:26,270
[Music]

3
00:00:36,130 --> 00:00:32,679
oh and welcome to the skeptic zone

4
00:00:37,960 --> 00:00:36,140
podcast episode number 531 for the 23rd

5
00:00:40,810 --> 00:00:37,970
of December 2018

6
00:00:43,119 --> 00:00:40,820
richardsaunders here with you coming to

7
00:00:46,299 --> 00:00:43,129
you today from downtown San Francisco

8
00:00:51,310 --> 00:00:46,309
I'm right on Market Street not far from

9
00:00:54,160 --> 00:00:51,320
Macy's lots of people buzzing about down

10
00:00:57,760 --> 00:00:54,170
here last-minute Christmas shopping I

11
00:01:02,050 --> 00:01:00,430
coming up on this week's show we're

12
00:01:03,580 --> 00:01:02,060
going to start off with the raw skeptic

13
00:01:06,490 --> 00:01:03,590

Heidi Robertson from the Northern Rivers

14

00:01:09,580 --> 00:01:06,500

vaccination supporters she's going to

15

00:01:11,650 --> 00:01:09,590

report on the 7:30 report the 7:30

16

00:01:14,890 --> 00:01:11,660

reporters and news information program

17

00:01:18,490 --> 00:01:14,900

on the national broadcaster in Australia

18

00:01:20,740 --> 00:01:18,500

and recently they did a story focused on

19

00:01:24,670 --> 00:01:20,750

the Northern Rivers area about the no

20

00:01:28,360 --> 00:01:24,680

jab no play Lourdes and its

21

00:01:31,090 --> 00:01:28,370

ramifications on children not being now

22

00:01:32,980 --> 00:01:31,100

admitted to preschools a very

23

00:01:35,950 --> 00:01:32,990

interesting report indeed from Heidi

24

00:01:38,740 --> 00:01:35,960

Robinson following that it's an update

25

00:01:41,109 --> 00:01:38,750

from our friend Britt amis Britt you'll

26
00:01:44,230 --> 00:01:41,119
will remember was a former naturopath

27
00:01:48,760 --> 00:01:44,240
who well I guess sort of saw the light

28
00:01:51,550 --> 00:01:48,770
and has written about the real ins and

29
00:01:54,670 --> 00:01:51,560
outs of naturopathy the pseudoscience

30
00:01:57,880 --> 00:01:54,680
and the bunk involved with that and she

31
00:01:59,940 --> 00:01:57,890
gives an update on her legal case being

32
00:02:02,919 --> 00:01:59,950
a conducted in Germany at the moment

33
00:02:05,740 --> 00:02:02,929
then we have Maynard skeptics in the pub

34
00:02:07,690 --> 00:02:05,750
may not spoke to Tom Gordon who is one

35
00:02:12,190 --> 00:02:07,700
of the presenters at skip Dickinson pub

36
00:02:13,950 --> 00:02:12,200
a couple of months ago Tom is involved

37
00:02:17,860 --> 00:02:13,960
at the City University where he's a

38
00:02:19,810 --> 00:02:17,870

senior science communicator Tom gave a

39

00:02:21,310 --> 00:02:19,820

fascinating talk and used a theremin

40

00:02:24,100 --> 00:02:21,320

when you hear the theremin in the

41

00:02:28,080 --> 00:02:24,110

background he's gonna be talking about

42

00:02:31,480 --> 00:02:28,090

the quality in physics quantum computers

43

00:02:35,500 --> 00:02:31,490

climate change how to make a hit song

44

00:02:38,260 --> 00:02:35,510

and pulsars is a wide-ranging interview

45

00:02:40,170 --> 00:02:38,270

with Tom Gordon Maynard spooky action

46

00:02:42,370 --> 00:02:40,180

coming up a bit later on in the show

47

00:02:44,220 --> 00:02:42,380

then to round off the show we have the

48

00:02:48,670 --> 00:02:44,230

Australian Medical Association's

49

00:02:51,040 --> 00:02:48,680

commentary on alternative medicine and

50

00:02:54,520 --> 00:02:51,050

complementary medicines their position

51
00:02:57,220 --> 00:02:54,530
statement and it's a warning supporting

52
00:03:03,330 --> 00:02:59,170
well what groovy sounds they're coming

53
00:03:08,520 --> 00:03:06,540
okay hang out here maybe grab a hot dog

54
00:03:14,250 --> 00:03:08,530
from a vendor just down the street why

55
00:03:31,280 --> 00:03:21,540
[Music]

56
00:03:44,430 --> 00:03:35,250
it's the raw skeptic report with Heidi

57
00:03:46,160 --> 00:03:44,440
Robertson hello everyone this is Heidi

58
00:03:50,490 --> 00:03:46,170
Robertson from the Northern Rivers

59
00:03:52,860 --> 00:03:50,500
vaccinations supporters a couple of

60
00:03:55,800 --> 00:03:52,870
weeks ago I've got a phone call from a

61
00:03:59,670 --> 00:03:55,810
Peter McCutcheon a journalist with

62
00:04:03,750 --> 00:03:59,680
Australian TVs seven-thirty report which

63
00:04:06,290 --> 00:04:03,760

is an ABC news program Peter have

64

00:04:10,920 --> 00:04:06,300

interviewed me about three years ago

65

00:04:13,680 --> 00:04:10,930

about the policy of no jab no play which

66

00:04:16,350 --> 00:04:13,690

along with no job no pay places

67

00:04:19,080 --> 00:04:16,360

restrictions on parents who do not have

68

00:04:21,200 --> 00:04:19,090

their children immunized in terms of

69

00:04:23,850 --> 00:04:21,210

sending them to preschool facilities and

70

00:04:29,280 --> 00:04:23,860

receiving government benefits associated

71

00:04:32,100 --> 00:04:29,290

with child care and immunisation the

72

00:04:36,690 --> 00:04:32,110

7:30 report wanted to do a follow-up

73

00:04:38,610 --> 00:04:36,700

story about no jab no play this time

74

00:04:41,520 --> 00:04:38,620

with the angle of looking at how the

75

00:04:44,790 --> 00:04:41,530

policy is seen by some as disadvantaging

76

00:04:48,300 --> 00:04:44,800

children by restricting their access to

77

00:04:50,250 --> 00:04:48,310

early childhood education at the

78

00:04:52,770 --> 00:04:50,260

Northern Rivers vaccination supporters

79

00:04:56,460 --> 00:04:52,780

we have taken the stance that yes these

80

00:04:59,600 --> 00:04:56,470

kids are disadvantaged but it is their

81

00:05:03,540 --> 00:04:59,610

own parents who are disadvantaging them

82

00:05:05,460 --> 00:05:03,550

many of these parents as we know have

83

00:05:08,750 --> 00:05:05,470

been swayed by the anti-vaccination

84

00:05:12,930 --> 00:05:08,760

movement which is based on lies and

85

00:05:15,000 --> 00:05:12,940

scaremongering tactics and as we know

86

00:05:19,860 --> 00:05:15,010

once you've been scared it is very

87

00:05:22,920 --> 00:05:19,870

difficult to become unscared Katerina

88

00:05:26,010 --> 00:05:22,930

Gorka who lives at UK recently found out

89

00:05:28,380 --> 00:05:26,020

her son Manu can't join his sister Meir

90

00:05:32,040 --> 00:05:28,390

at preschool

91

00:05:35,220 --> 00:05:32,050

I don't think it's fair to be honest it

92

00:05:38,820 --> 00:05:35,230

makes me feel like we're but secluded

93

00:05:41,220 --> 00:05:38,830

from society yeah did you ever think

94

00:05:43,680 --> 00:05:41,230

I'll get my son vaccinated so I get

95

00:05:46,670 --> 00:05:43,690

around this preschool problem no I don't

96

00:05:48,840 --> 00:05:46,680

know I never thought about them why not

97

00:05:50,490 --> 00:05:48,850

because I have a set opinion on

98

00:05:54,510 --> 00:05:50,500

vaccinations and that's not going to

99

00:05:56,910 --> 00:05:54,520

change these kids do not deserve to be

100

00:06:00,180 --> 00:05:56,920

denied this opportunity to miss out on

101
00:06:02,340 --> 00:06:00,190
preschool neither do they deserve to be

102
00:06:04,760 --> 00:06:02,350
left an immune eyes in an area with

103
00:06:07,740 --> 00:06:04,770
dangerously low vaccination rates and

104
00:06:09,870 --> 00:06:07,750
neither do the immune compromised kids

105
00:06:12,540 --> 00:06:09,880
and the babies too young to be

106
00:06:15,900 --> 00:06:12,550
vaccinated deserve to be in an

107
00:06:19,110 --> 00:06:15,910
environment with 50% or more of kids

108
00:06:21,570 --> 00:06:19,120
being unvaccinated and that is the

109
00:06:24,120 --> 00:06:21,580
current case at the Mount Warning

110
00:06:26,370 --> 00:06:24,130
community preschool which was featured

111
00:06:27,580 --> 00:06:26,380
in the 7:30 report

112
00:06:30,159 --> 00:06:27,590
[Music]

113
00:06:31,990 --> 00:06:30,169

the Mount Warning community preschool

114

00:06:35,560 --> 00:06:32,000

near Byron Bay in northern New South

115

00:06:38,470 --> 00:06:35,570

Wales is shrinking from 60 enrollments

116

00:06:41,650 --> 00:06:38,480

now to 40 next year and probably even

117

00:06:44,620 --> 00:06:41,660

fewer from 2020 in an area that is

118

00:06:49,780 --> 00:06:44,630

growing you'll be able to continue here

119

00:06:53,290 --> 00:06:49,790

do you think we plan to so what we'll

120

00:06:54,940 --> 00:06:53,300

see yeah it's hard to tell the problem

121

00:06:57,909 --> 00:06:54,950

is that half the children here are

122

00:07:00,460 --> 00:06:57,919

unvaccinated under new state government

123

00:07:02,320 --> 00:07:00,470

rules they're allowed to stay here but

124

00:07:04,480 --> 00:07:02,330

they're unvaccinated younger brothers

125

00:07:06,820 --> 00:07:04,490

and sisters are banned from enrolling in

126

00:07:10,870 --> 00:07:06,830

the future as part of a policy known as

127

00:07:12,940 --> 00:07:10,880

no jab no play the filming for this

128

00:07:16,360 --> 00:07:12,950

interview was done along with an

129

00:07:19,810 --> 00:07:16,370

interview with Tony McCaffrey and took

130

00:07:23,680 --> 00:07:19,820

about three hours it was aired last

131

00:07:26,800 --> 00:07:23,690

night the 18th of December 2018 of

132

00:07:29,430 --> 00:07:26,810

course all that filming of three hours

133

00:07:32,350 --> 00:07:29,440

had to be heavily edited down and

134

00:07:36,370 --> 00:07:32,360

resulted in a couple of sentences from

135

00:07:39,490 --> 00:07:36,380

me but more importantly ed Tony's story

136

00:07:44,230 --> 00:07:39,500

about her daughter Dana's death in 2009

137

00:07:47,409 --> 00:07:44,240

as a result of whooping cough my four

138

00:07:48,700 --> 00:07:47,419

week old baby coughed and coughed and

139

00:07:50,409 --> 00:07:48,710

coughed and coughed and coughed which

140

00:07:52,480 --> 00:07:50,419

seemed like four minutes and went blue

141

00:07:57,480 --> 00:07:52,490

stopped breathing and passed out in my

142

00:08:00,129 --> 00:07:57,490

arms and the hospital staff very calmly

143

00:08:04,770 --> 00:08:00,139

took her from me and put oxygen on her

144

00:08:09,010 --> 00:08:04,780

face and said yep classic whooping cough

145

00:08:10,150 --> 00:08:09,020

baby Dana McCaffrey died in 2009 at

146

00:08:11,720 --> 00:08:10,160

Lismore Hospital

147

00:08:14,820 --> 00:08:11,730

[Music]

148

00:08:16,800 --> 00:08:14,830

her mother Tony is now part of a group

149

00:08:19,680 --> 00:08:16,810

that helps to promote inform debate

150

00:08:22,440 --> 00:08:19,690

about immunization Heidi Robertson is

151
00:08:24,750 --> 00:08:22,450
the group's coordinator vaccination

152
00:08:28,320 --> 00:08:24,760
rates have increased and they've

153
00:08:31,380 --> 00:08:28,330
increased slowly but they continue to go

154
00:08:34,500 --> 00:08:31,390
up every time new data comes out what

155
00:08:36,990 --> 00:08:34,510
was not aired was Tony explaining that

156
00:08:40,290 --> 00:08:37,000
Dana had likely picked up whooping cough

157
00:08:42,380 --> 00:08:40,300
in a preschool facility where Tony had

158
00:08:46,340 --> 00:08:42,390
been dropping off her elder daughter

159
00:08:49,250 --> 00:08:46,350
carrying newborn Dana in with her

160
00:08:52,350 --> 00:08:49,260
Tony's husband had returned to work and

161
00:08:55,890 --> 00:08:52,360
Tony had no choice like many other

162
00:08:58,230 --> 00:08:55,900
parents but to take her baby with her to

163
00:09:02,460 --> 00:08:58,240

do the daily chores and this included

164

00:09:05,880 --> 00:09:02,470

going into that preschool unbeknownst to

165

00:09:08,850 --> 00:09:05,890

her but confirmed later whooping cough

166

00:09:11,790 --> 00:09:08,860

was rife in the preschool facility at

167

00:09:14,430 --> 00:09:11,800

that stage and there was a current

168

00:09:19,680 --> 00:09:14,440

epidemic of whooping cough in the entire

169

00:09:22,940 --> 00:09:19,690

region at that time Dana did not get a

170

00:09:25,470 --> 00:09:22,950

chance for an early childhood education

171

00:09:28,200 --> 00:09:25,480

nor have the other babies that have died

172

00:09:32,030 --> 00:09:28,210

or become permanently disabled as a

173

00:09:34,920 --> 00:09:32,040

result of a vaccine preventable disease

174

00:09:37,320 --> 00:09:34,930

the baby here in this region that now

175

00:09:39,840 --> 00:09:37,330

has a permanent brain injury as a result

176

00:09:42,180 --> 00:09:39,850

of hypoxia or lack of oxygen from

177

00:09:45,180 --> 00:09:42,190

whooping cough will not get the

178

00:09:47,100 --> 00:09:45,190

opportunity for preschool neither will

179

00:09:50,670 --> 00:09:47,110

the baby in this region that was denied

180

00:09:53,460 --> 00:09:50,680

a vitamin K shot at birth and now has a

181

00:09:56,490 --> 00:09:53,470

permanent brain injury as a result of a

182

00:09:59,340 --> 00:09:56,500

massive brain bleed the kid in this

183

00:10:01,650 --> 00:09:59,350

region who had chemotherapy and was

184

00:10:05,430 --> 00:10:01,660

exposed to a vaccine preventable disease

185

00:10:08,520 --> 00:10:05,440

missed out on much of preschool instead

186

00:10:10,470 --> 00:10:08,530

spending days quarantined with the

187

00:10:12,480 --> 00:10:10,480

anxious parents waiting to hear if

188

00:10:16,830 --> 00:10:12,490

they've contracted the potentially fatal

189

00:10:19,350 --> 00:10:16,840

disease a mum here lost her child to

190

00:10:21,360 --> 00:10:19,360

complications of measles and that child

191

00:10:23,429 --> 00:10:21,370

did get to go to preschool but missed

192

00:10:26,590 --> 00:10:23,439

out on high school

193

00:10:29,410 --> 00:10:26,600

these are just a handful of the many

194

00:10:33,309 --> 00:10:29,420

stories that our group hears all the

195

00:10:36,249 --> 00:10:33,319

time the public will never know of the

196

00:10:40,239 --> 00:10:36,259

multitude of other babies and children

197

00:10:43,389 --> 00:10:40,249

who have died or suffered as it is the

198

00:10:48,489 --> 00:10:43,399

parents choice to go public and not many

199

00:10:51,400 --> 00:10:48,499

do which is very understandable so like

200

00:10:54,369 --> 00:10:51,410

a very eloquent cath who's said to me

201
00:10:58,419 --> 00:10:54,379
you remember Kath who also lost her son

202
00:11:01,299 --> 00:10:58,429
Riley to whooping cough she said quote

203
00:11:04,689 --> 00:11:01,309
until such time as the experts figure

204
00:11:07,720 --> 00:11:04,699
out a way to change minds these policies

205
00:11:09,540 --> 00:11:07,730
are working to change behaviors end

206
00:11:12,160 --> 00:11:09,550
quote

207
00:11:15,389 --> 00:11:12,170
there has been media coverage today

208
00:11:17,799 --> 00:11:15,399
since this report went to air last night

209
00:11:20,619 --> 00:11:17,809
overwhelmingly in support of the

210
00:11:23,290 --> 00:11:20,629
policies and critical of the viewpoint

211
00:11:25,679 --> 00:11:23,300
that preschool education Trump's the

212
00:11:28,359 --> 00:11:25,689
health and well-being of children a

213
00:11:30,879 --> 00:11:28,369

parent with first-hand experience of

214

00:11:34,840 --> 00:11:30,889

childhood disease says health should

215

00:11:38,380 --> 00:11:34,850

always come first I know it sounds like

216

00:11:45,160 --> 00:11:38,390

tough love however

217

00:11:48,810 --> 00:11:45,170

these diseases can and do kill and what

218

00:11:51,820 --> 00:11:48,820

this policy is all about is keeping

219

00:11:54,310 --> 00:11:51,830

child care and preschool safer to

220

00:11:56,170 --> 00:11:54,320

protect our most vulnerable I'll leave

221

00:12:00,040 --> 00:11:56,180

it to Richard to link to some of that

222

00:12:02,080 --> 00:12:00,050

media in the show notes thanks for

223

00:12:04,690 --> 00:12:02,090

listening and until next time this has

224

00:12:08,410 --> 00:12:04,700

been highly Robertson of the Northern

225

00:12:08,420 --> 00:12:15,990

[Music]

226

00:12:20,620 --> 00:12:18,940

hey max fun listeners have you been

227

00:12:22,420 --> 00:12:20,630

listening to max fun for a while and

228

00:12:24,430 --> 00:12:22,430

you've just been wondering where's the

229

00:12:26,230 --> 00:12:24,440

new Flat Earth podcast to keep hearing

230

00:12:29,410 --> 00:12:26,240

about well here it is we give you all

231

00:12:34,150 --> 00:12:29,420

the facts on NASA's lies and how we know

232

00:12:37,330 --> 00:12:34,160

that the earth is actually flat this is

233

00:12:39,280 --> 00:12:37,340

oh no Ross and Carrie and we join fringe

234

00:12:41,380 --> 00:12:39,290

religious groups we undergo alternative

235

00:12:43,330 --> 00:12:41,390

medical treatments and we hang out with

236

00:12:44,830 --> 00:12:43,340

people like 9/11 truthers flat earthers

237

00:12:47,380 --> 00:12:44,840

we find out why do people believe

238

00:12:49,090 --> 00:12:47,390

strange things we join them and we tell

239

00:12:50,770 --> 00:12:49,100

you all about it we have a lot of fun we

240

00:12:52,500 --> 00:12:50,780

make a lot of friends yeah we do we

241

00:12:55,090 --> 00:12:52,510

joined the Mormons we joined the

242

00:12:57,340 --> 00:12:55,100

Scientologists we got acupuncture we got

243

00:12:58,900 --> 00:12:57,350

fire cups we got ear candled we've done

244

00:13:00,730 --> 00:12:58,910

it all and we're gonna keep doing it all

245

00:13:07,370 --> 00:13:00,740

why don't you check out oh no Ross and

246

00:13:07,380 --> 00:13:19,230

[Music]

247

00:13:23,590 --> 00:13:21,700

now here's an update that comes to us

248

00:13:26,380 --> 00:13:23,600

from the Australian skeptics website at

249

00:13:29,050 --> 00:13:26,390

skeptics comdataís you read Hermes

250

00:13:31,750 --> 00:13:29,060

campaign an update on the defamation

251
00:13:40,510 --> 00:13:31,760
case this is by Tim Mendham published on

252
00:13:43,120 --> 00:13:40,520
the 18th of December 2018 Britt Burmese

253
00:13:45,700 --> 00:13:43,130
is an American former naturopath and

254
00:13:47,470 --> 00:13:45,710
noted skeptical campaigner who has spent

255
00:13:49,330 --> 00:13:47,480
much time and effort lately in

256
00:13:52,650 --> 00:13:49,340
campaigning against naturopathic

257
00:13:56,380 --> 00:13:52,660
practices she is the author of the blog

258
00:13:57,940 --> 00:13:56,390
naturopathic Diaries here she provides

259
00:14:00,550 --> 00:13:57,950
an update on the status of her

260
00:14:04,450 --> 00:14:00,560
defamation suit over naturopathy

261
00:14:10,300 --> 00:14:04,460
and the skeptics campaign to cover her

262
00:14:14,350 --> 00:14:10,310
legal expense britt hermes writes dear

263
00:14:17,620 --> 00:14:14,360

friends in October 2017 I was served

264

00:14:20,710 --> 00:14:17,630

with a German lawsuit from an American

265

00:14:23,500 --> 00:14:20,720

naturopath named Colleen Huber who

266

00:14:26,440 --> 00:14:23,510

alleges that I committed defamation

267

00:14:28,720 --> 00:14:26,450

against her when I criticized her cancer

268

00:14:31,510 --> 00:14:28,730

treatments and claims of extraordinary

269

00:14:34,030 --> 00:14:31,520

results to help support my defense

270

00:14:37,750 --> 00:14:34,040

against this legal threat Australian

271

00:14:41,410 --> 00:14:37,760

skeptics Inc asi spearheaded a fund

272

00:14:44,350 --> 00:14:41,420

raising campaign to which you generously

273

00:14:47,350 --> 00:14:44,360

contributed the success of this effort

274

00:14:50,650 --> 00:14:47,360

was astonishing we reached our goal of

275

00:14:53,470 --> 00:14:50,660

raising at least 50,000 euros or about

276

00:14:57,030 --> 00:14:53,480

80,000 Australian dollars in less than

277

00:14:59,500 --> 00:14:57,040

nine days as of this week more than

278

00:15:04,570 --> 00:14:59,510

\$100,000 Australian has been raised over

279

00:15:08,170 --> 00:15:04,580

the last year about \$33,000 or 20,000

280

00:15:11,460 --> 00:15:08,180

euros has been put towards my legal fees

281

00:15:14,290 --> 00:15:11,470

so far these funds have been

282

00:15:16,540 --> 00:15:14,300

indispensable to my case and without

283

00:15:19,240 --> 00:15:16,550

them I would not be able to defend

284

00:15:20,560 --> 00:15:19,250

myself I want to share with you an

285

00:15:24,640 --> 00:15:20,570

update from

286

00:15:27,550 --> 00:15:24,650

case in April 2018 my judge heard the

287

00:15:30,100 --> 00:15:27,560

case in Kiel the judge reviewed the

288

00:15:31,330 --> 00:15:30,110

points of the case with my lawyer and

289

00:15:34,660 --> 00:15:31,340

who burrs lawyer

290

00:15:37,150 --> 00:15:34,670

hooba did not appear at the hearing nor

291

00:15:40,210 --> 00:15:37,160

was she required to do so the judge

292

00:15:42,370 --> 00:15:40,220

offered no ruling and informed us he

293

00:15:44,550 --> 00:15:42,380

would continue to review the legal

294

00:15:48,220 --> 00:15:44,560

briefs submitted by both sides and

295

00:15:50,850 --> 00:15:48,230

relevant case law we were expecting to

296

00:15:53,230 --> 00:15:50,860

have another hearing by late summer 2018

297

00:15:55,780 --> 00:15:53,240

several months later we learned that the

298

00:15:58,630 --> 00:15:55,790

judge who had heard the case suddenly

299

00:16:01,480 --> 00:15:58,640

moved to another chamber so our case was

300

00:16:03,520 --> 00:16:01,490

reassigned to a new judge now we are

301

00:16:06,880 --> 00:16:03,530

told there will be a hearing in front of

302

00:16:10,060 --> 00:16:06,890

this judge in early 2019 but the date

303

00:16:11,740 --> 00:16:10,070

has yet to be scheduled I have been

304

00:16:15,250 --> 00:16:11,750

happy with this slow pages of the German

305

00:16:17,740 --> 00:16:15,260

Court as it has given me respite from

306

00:16:20,110 --> 00:16:17,750

the stress of the case most importantly

307

00:16:23,470 --> 00:16:20,120

I am lucky to be able to focus on my

308

00:16:25,800 --> 00:16:23,480

baby on the same day I found out I was

309

00:16:28,390 --> 00:16:25,810

being sued I found out I was pregnant

310

00:16:31,810 --> 00:16:28,400

your generous support and the strong

311

00:16:34,710 --> 00:16:31,820

effort of ASI to organize the fundraiser

312

00:16:37,000 --> 00:16:34,720

allowed me to keep my stress low I

313

00:16:39,700 --> 00:16:37,010

intended to keep up with my blogging

314

00:16:41,950 --> 00:16:39,710

public speaking and PhD program during

315

00:16:44,320 --> 00:16:41,960

my pregnancy but severe and prolonged

316

00:16:47,140 --> 00:16:44,330

morning sickness made this impossible

317

00:16:50,440 --> 00:16:47,150

those who heard my skype talk at skeptic

318

00:16:52,630 --> 00:16:50,450

on 2017 conference may be amused to

319

00:16:55,960 --> 00:16:52,640

learn that I had a bucket at my feet

320

00:16:58,390 --> 00:16:55,970

just in case dr. Karl Cruz will miss key

321

00:17:00,850 --> 00:16:58,400

Australian science communicator assured

322

00:17:03,190 --> 00:17:00,860

me that all my intense morning sickness

323

00:17:05,439 --> 00:17:03,200

meant that my baby was healthy and

324

00:17:08,790 --> 00:17:05,449

robust sure enough I delivered a healthy

325

00:17:11,710 --> 00:17:08,800

and very strong baby girl in June 2018

326

00:17:14,170 --> 00:17:11,720

mum life has been wonderful but I am

327

00:17:17,319 --> 00:17:14,180

still struggling to balance PhD work

328

00:17:19,240 --> 00:17:17,329

home life and writing projects to

329

00:17:21,880 --> 00:17:19,250

outsiders it may appear as though the

330

00:17:24,699 --> 00:17:21,890

legal cases deferred me from writing

331

00:17:26,710 --> 00:17:24,709

rest assured it is just a new member of

332

00:17:28,860 --> 00:17:26,720

the skeptical community that keeps me

333

00:17:31,990 --> 00:17:28,870

away from the computer and not any

334

00:17:33,930 --> 00:17:32,000

specific legal concern in other exciting

335

00:17:36,090 --> 00:17:33,940

news last month I was awarded

336

00:17:38,430 --> 00:17:36,100

John Maddox priors for standing up for

337

00:17:41,249 --> 00:17:38,440

science in the face of hostility and

338

00:17:43,499 --> 00:17:41,259

difficulty Australian marine biologist

339

00:17:46,080 --> 00:17:43,509

Terry Hughes was also awarded the prize

340

00:17:48,389 --> 00:17:46,090

for his research on coral bleaching due

341

00:17:51,060 --> 00:17:48,399

to climate change and opposition he

342

00:17:53,279 --> 00:17:51,070

faced in doing so I was nominated for

343

00:17:56,039 --> 00:17:53,289

the prize by Professor Chris French and

344

00:17:58,139 --> 00:17:56,049

dr. Chris Peters I am deeply honored to

345

00:18:00,810 --> 00:17:58,149

be awarded the John Maddox prize and to

346

00:18:03,810 --> 00:18:00,820

stand alongside others who champion

347

00:18:05,399 --> 00:18:03,820

science against adversity for me this

348

00:18:07,529 --> 00:18:05,409

award means that the scientific

349

00:18:11,310 --> 00:18:07,539

community does not define you by

350

00:18:14,009 --> 00:18:11,320

mistakes rather by responses to them

351

00:18:16,259 --> 00:18:14,019

I expect 2019 to be another

352

00:18:19,619 --> 00:18:16,269

action-packed year I will return

353

00:18:21,560 --> 00:18:19,629

full-time to my PhD program in which I

354

00:18:24,180 --> 00:18:21,570

research the genetic interplay between

355

00:18:26,639 --> 00:18:24,190

microbiota and their mammalian hosts I

356

00:18:29,369 --> 00:18:26,649

will also start writing regularly again

357

00:18:31,980 --> 00:18:29,379

about naturopathy I feel it is my

358

00:18:34,200 --> 00:18:31,990

ethical duty to speak out and provide

359

00:18:36,749 --> 00:18:34,210

fact-based information about this

360

00:18:40,289 --> 00:18:36,759

elusive community that remains in the

361

00:18:42,330 --> 00:18:40,299

deep end of pseudoscience naturopaths

362

00:18:44,970 --> 00:18:42,340

simply make up alternative facts about

363

00:18:47,669 --> 00:18:44,980

medicine to profit at the expense of

364

00:18:49,980 --> 00:18:47,679

people's health and safety I fully

365

00:18:53,899 --> 00:18:49,990

expect my right of freedom of expression

366

00:18:56,999 --> 00:18:53,909

to be upheld in the German court of law

367

00:19:02,820 --> 00:18:57,009

thank you for supporting me yours

368

00:19:05,029 --> 00:19:02,830

Brent Murray Hermes and that comes to us

369

00:19:09,509 --> 00:19:05,039

from the Australian skeptics website

370

00:19:11,730 --> 00:19:09,519

wwlp.com au published on the 18th of

371

00:19:12,360 --> 00:19:11,740

December with a link in this week's show

372

00:19:38,100 --> 00:19:12,370

notes

373

00:19:42,190 --> 00:19:38,110

[Music]

374

00:19:45,220 --> 00:19:42,200

dr. Harriet Hall MD no into thousands as

375

00:19:48,340 --> 00:19:45,230

the skeptic a retired family physician

376

00:19:50,410 --> 00:19:48,350

and former Air Force flight surgeon she

377

00:19:52,110 --> 00:19:50,420

writes about medicine so-called

378

00:19:55,980 --> 00:19:52,120

complementary and alternative medicine

379

00:19:59,080 --> 00:19:55,990

science hackery and critical thinking

380

00:20:01,330 --> 00:19:59,090

Harriet now has a free course a series

381

00:20:04,690 --> 00:20:01,340

of 10 video lectures on science-based

382

00:20:06,700 --> 00:20:04,700

medicine and alternative medicine the

383

00:20:08,830 --> 00:20:06,710

videos and an accompanying course guide

384

00:20:13,660 --> 00:20:08,840

can be found by following the link at

385

00:20:18,270 --> 00:20:13,670

skeptic info or by visiting web Randi's

386

00:20:22,020 --> 00:20:18,280

org slash educational - modules dot

387

00:20:24,280 --> 00:20:22,030

html' topics covered in the series are

388

00:20:25,570 --> 00:20:24,290

science-based medicine vs.

389

00:20:29,280 --> 00:20:25,580

evidence-based medicine

390

00:20:32,560 --> 00:20:29,290

what is camp chiropractic acupuncture

391

00:20:35,350 --> 00:20:32,570

homeopathy naturopathy and herbal

392

00:20:38,080 --> 00:20:35,360

medicine energy medicine miscellaneous

393

00:20:41,080 --> 00:20:38,090

alternatives pitfalls in research and

394

00:20:44,830 --> 00:20:41,090

science based medicine in the media and

395

00:20:47,410 --> 00:20:44,840

politics Harriette covers each topic in

396

00:20:50,680 --> 00:20:47,420

a matter-of-fact no-nonsense way that

397

00:20:54,260 --> 00:20:50,690

sure to educate and entertain skeptic

398

00:20:54,270 --> 00:21:06,150

[Music]

399

00:21:19,430 --> 00:21:11,110

years may not spooky action at a

400

00:21:24,540 --> 00:21:21,480

look we've just been listening to Tom

401
00:21:26,310 --> 00:21:24,550
here and Tom I know now were you once a

402
00:21:27,690 --> 00:21:26,320
junior science educator before you were

403
00:21:29,700 --> 00:21:27,700
a senior science educator how's that

404
00:21:31,350 --> 00:21:29,710
work now as the science communicator and

405
00:21:33,000 --> 00:21:31,360
then they upgraded me to senior science

406
00:21:34,890 --> 00:21:33,010
communicator so there's no junior ones

407
00:21:36,600 --> 00:21:34,900
says no jr. sighs give me a game that's

408
00:21:38,460 --> 00:21:36,610
a bit of a pity oh look and you were

409
00:21:41,970 --> 00:21:38,470
talking there earlier about a guy who

410
00:21:44,370 --> 00:21:41,980
got his uh his Nobel Prize because maybe

411
00:21:45,930 --> 00:21:44,380
he made a flashy video to do things like

412
00:21:47,730 --> 00:21:45,940
that actually influence the committee I

413
00:21:49,950 --> 00:21:47,740

don't think they do influence the

414

00:21:52,230 --> 00:21:49,960

committee but to me that's a thing that

415

00:21:55,110 --> 00:21:52,240

maybe should because this fleshie video

416

00:21:57,450 --> 00:21:55,120

said some as a negative thing it said

417

00:21:59,400 --> 00:21:57,460

some things about the the person who did

418

00:22:00,960 --> 00:21:59,410

the research research aside I'm sure the

419

00:22:03,270 --> 00:22:00,970

research is wonderful but the thing that

420

00:22:07,620 --> 00:22:03,280

the video was showing was something that

421

00:22:10,670 --> 00:22:07,630

was a bit odd and it would be if it was

422

00:22:13,320 --> 00:22:10,680

up to me and it's not the Nobel Prize

423

00:22:15,360 --> 00:22:13,330

maybe it could take that into

424

00:22:16,740 --> 00:22:15,370

consideration yeah that'd be a tough one

425

00:22:18,390 --> 00:22:16,750

it would be like if it was a tie between

426

00:22:19,650 --> 00:22:18,400

that person and someone else and someone

427

00:22:21,570 --> 00:22:19,660

had done something in the public arena

428

00:22:23,460 --> 00:22:21,580

that brings baps physics in to

429

00:22:25,140 --> 00:22:23,470

distribute for example but then that

430

00:22:27,180 --> 00:22:25,150

gets very subjective quickly about -

431

00:22:29,400 --> 00:22:27,190

doesn't matter yeah it does get very

432

00:22:32,040 --> 00:22:29,410

subjective but what that what the the

433

00:22:34,080 --> 00:22:32,050

message is there is physics is a place

434

00:22:36,300 --> 00:22:34,090

for people and you are not one of those

435

00:22:38,760 --> 00:22:36,310

people right to a certain group of

436

00:22:40,920 --> 00:22:38,770

people in physics it really does say you

437

00:22:43,350 --> 00:22:40,930

are not you are not welcome here and

438

00:22:45,300 --> 00:22:43,360

that's a big big problem for me that's

439

00:22:47,610 --> 00:22:45,310

right yeah because video is kind of

440

00:22:50,280 --> 00:22:47,620

making things a less pleasant place for

441

00:22:52,830 --> 00:22:50,290

women to be correct if I read that video

442

00:22:55,140 --> 00:22:52,840

right and I'm pretty sure I did yeah it

443

00:22:58,440 --> 00:22:55,150

was it was definitely women have a place

444

00:23:00,810 --> 00:22:58,450

but it's not in a lab disagree with oh

445

00:23:03,060 --> 00:23:00,820

yeah I mean is this your part that maybe

446

00:23:05,070 --> 00:23:03,070

some women would maybe don't want to do

447

00:23:06,720 --> 00:23:05,080

engineering or don't want to do physics

448

00:23:08,640 --> 00:23:06,730

is that a legitimate thing if they don't

449

00:23:11,400 --> 00:23:08,650

want to do it - of course of course it

450

00:23:12,900 --> 00:23:11,410

is just like some men don't want to I

451
00:23:14,580 --> 00:23:12,910
really don't wanna do physics and being

452
00:23:18,430 --> 00:23:14,590
with engineers is not my idea of not a

453
00:23:21,050 --> 00:23:18,440
good time so ed engineers there

454
00:23:22,310 --> 00:23:21,060
so absolutely of course there is there

455
00:23:24,980 --> 00:23:22,320
is an argument to say if you don't want

456
00:23:27,230 --> 00:23:24,990
to do it you don't do it but from my

457
00:23:30,560 --> 00:23:27,240
perspective you must make the place that

458
00:23:33,200 --> 00:23:30,570
you are that you work accessible to

459
00:23:34,580 --> 00:23:33,210
everybody if they want to yeah and look

460
00:23:36,110 --> 00:23:34,590
I couldn't agree more with you and it's

461
00:23:38,090 --> 00:23:36,120
a pity that your story you did on that

462
00:23:39,680 --> 00:23:38,100
for the ABC site the conversation I

463
00:23:41,720 --> 00:23:39,690

think it's a bit I got pushed off the

464

00:23:44,180 --> 00:23:41,730

front page by a Liberal Party action led

465

00:23:46,610 --> 00:23:44,190

by some politics yeah it was it was a

466

00:23:48,380 --> 00:23:46,620

the the irony was not lost on me yeah

467

00:23:50,630 --> 00:23:48,390

they told me that this will get traction

468

00:23:52,880 --> 00:23:50,640

and then it didn't because of literally

469

00:23:54,830 --> 00:23:52,890

the same thing in the Liberal Party yeah

470

00:23:56,480 --> 00:23:54,840

and how I think has it has the mood in

471

00:23:58,250 --> 00:23:56,490

church education at the moment under

472

00:24:00,290 --> 00:23:58,260

this sort of a slight leaves right

473

00:24:02,150 --> 00:24:00,300

skewing government we've got now it has

474

00:24:04,010 --> 00:24:02,160

funding for Sydney for example can you

475

00:24:05,420 --> 00:24:04,020

even talk about that oh I don't know too

476

00:24:09,200 --> 00:24:05,430

much about it I'm not I'm not involved

477

00:24:11,270 --> 00:24:09,210

in too much of the grants and Sydney Uni

478

00:24:13,640 --> 00:24:11,280

is it's a pretty successful University

479

00:24:16,640 --> 00:24:13,650

we got a lot of international students

480

00:24:18,860 --> 00:24:16,650

we get a lot of research funding you

481

00:24:20,000 --> 00:24:18,870

know I don't I don't think we can we we

482

00:24:22,220 --> 00:24:20,010

don't see much of a difference between

483

00:24:23,480 --> 00:24:22,230

the different governments and you said

484

00:24:24,950 --> 00:24:23,490

you go around you talk to the various

485

00:24:26,180 --> 00:24:24,960

faculties about what they're doing so

486

00:24:27,770 --> 00:24:26,190

you can communicate that to people

487

00:24:29,600 --> 00:24:27,780

what's the one that's the most difficult

488

00:24:30,980 --> 00:24:29,610

to get across the work they've got not

489

00:24:32,480 --> 00:24:30,990

because it's difficult to understand but

490

00:24:33,230 --> 00:24:32,490

people might not understand why they're

491

00:24:35,090 --> 00:24:33,240

doing it

492

00:24:36,920 --> 00:24:35,100

that's a great question as to I'll give

493

00:24:38,780 --> 00:24:36,930

you one because it's very difficult

494

00:24:40,700 --> 00:24:38,790

which is quantum computing and where

495

00:24:42,170 --> 00:24:40,710

we've it we're right in that there's an

496

00:24:43,730 --> 00:24:42,180

international race on at the moment to

497

00:24:45,980 --> 00:24:43,740

see who can make the world's first

498

00:24:47,960 --> 00:24:45,990

useful good quantum computer and

499

00:24:50,300 --> 00:24:47,970

Sydney's in it Sydney New South Wales

500

00:24:52,760 --> 00:24:50,310

Australia is in that race well and truly

501
00:24:55,130 --> 00:24:52,770
we have a couple of labs at Sydney Uni

502
00:24:56,660 --> 00:24:55,140
that work on that also a lab at UNSW run

503
00:24:59,060 --> 00:24:56,670
by Professor Michele Simmons who's

504
00:25:00,950 --> 00:24:59,070
Australian of the Year she we work with

505
00:25:02,570 --> 00:25:00,960
her they work with us to try and make

506
00:25:04,250 --> 00:25:02,580
quantum computing that it was a problem

507
00:25:07,040 --> 00:25:04,260
someone opens a box and looks at the

508
00:25:08,720 --> 00:25:07,050
computer that stops work it's it's not

509
00:25:10,040 --> 00:25:08,730
too far off that you've got to make an

510
00:25:11,210 --> 00:25:10,050
electron do something but you can't look

511
00:25:13,159 --> 00:25:11,220
at it

512
00:25:14,840 --> 00:25:13,169
yeah so that's incredibly difficult -

513
00:25:16,310 --> 00:25:14,850

very hard to understand it's incredibly

514

00:25:18,200 --> 00:25:16,320

difficult to get that kind of concept

515

00:25:20,659 --> 00:25:18,210

across so how you gonna change the

516

00:25:22,460 --> 00:25:20,669

battery yeah exactly exactly

517

00:25:25,399 --> 00:25:22,470

the other one that's really complicated

518

00:25:27,799 --> 00:25:25,409

and even for researchers is this idea of

519

00:25:30,710 --> 00:25:27,809

climate change like we've got a group at

520

00:25:32,299 --> 00:25:30,720

Sydney units called the integrated

521

00:25:33,770 --> 00:25:32,309

sustainability analysis that's what they

522

00:25:36,080 --> 00:25:33,780

call and they literally go to

523

00:25:37,669 --> 00:25:36,090

conferences telling you that you should

524

00:25:38,870 --> 00:25:37,679

not be at a conference because to get to

525

00:25:40,640 --> 00:25:38,880

that conference you had to fly on a

526

00:25:42,230 --> 00:25:40,650

plane and now you're a tourist and

527

00:25:44,090 --> 00:25:42,240

that's a huge impact that's like a

528

00:25:45,770 --> 00:25:44,100

bigger impact than all of the cars

529

00:25:47,960 --> 00:25:45,780

combined in your country or something

530

00:25:50,659 --> 00:25:47,970

well yes if the numbers are out there

531

00:25:53,270 --> 00:25:50,669

it's it's certainly true but yeah

532

00:25:55,640 --> 00:25:53,280

practically yeah yeah it's it's it's

533

00:25:57,919 --> 00:25:55,650

funny to go to a conference to say we're

534

00:25:59,570 --> 00:25:57,929

all making it worse but they're not

535

00:26:01,010 --> 00:25:59,580

because they're researching it right and

536

00:26:03,380 --> 00:26:01,020

this is a tough argument to make to

537

00:26:05,840 --> 00:26:03,390

people to say we gotta change the way we

538

00:26:07,880 --> 00:26:05,850

live if you and I were to live the way

539

00:26:09,560 --> 00:26:07,890

that everyone on the planet was to live

540

00:26:11,570 --> 00:26:09,570

the way that you and I do well we would

541

00:26:14,450 --> 00:26:11,580

get rid of half of us yes we would need

542

00:26:16,700 --> 00:26:14,460

to have about 30 planets yeah to live

543

00:26:18,529 --> 00:26:16,710

the way that we do right and we don't

544

00:26:20,480 --> 00:26:18,539

have that we've got one and that's a

545

00:26:23,930 --> 00:26:20,490

really tough sell it's enough sell to

546

00:26:26,360 --> 00:26:23,940

say we're using good science to make you

547

00:26:28,220 --> 00:26:26,370

know decisions that hurt us right yeah

548

00:26:29,899 --> 00:26:28,230

we've got to change look this also flows

549

00:26:31,250 --> 00:26:29,909

on to debates like immigration as well

550

00:26:33,440 --> 00:26:31,260

people could abuse that so we look a

551

00:26:36,350 --> 00:26:33,450

strategy is technically full yeah

552

00:26:38,029 --> 00:26:36,360

exactly and in this economic argument

553

00:26:39,529 --> 00:26:38,039

which I'm not even going to get into but

554

00:26:40,820 --> 00:26:39,539

yes so this is things you're grappling

555

00:26:42,890 --> 00:26:40,830

with everyday work you must have a

556

00:26:44,600 --> 00:26:42,900

fascinating job it's it's a pretty good

557

00:26:46,490 --> 00:26:44,610

job and we get a lot of questions from

558

00:26:47,899 --> 00:26:46,500

students because a year you're 11 and 12

559

00:26:49,760 --> 00:26:47,909

students they're they're not afraid to

560

00:26:51,260 --> 00:26:49,770

ask these questions so I've got to be a

561

00:26:52,640 --> 00:26:51,270

cross I've got to know what I'm what I'm

562

00:26:54,320 --> 00:26:52,650

talking about with respect to some of

563

00:26:56,659 --> 00:26:54,330

the questions they're gonna ask and you

564

00:26:57,770 --> 00:26:56,669

give them both sides of what's going on

565

00:27:00,169 --> 00:26:57,780

so they can have a bit of think about

566

00:27:03,740 --> 00:27:00,179

themselves correct it's difficult to

567

00:27:06,049 --> 00:27:03,750

keep opinions out of it sometimes we

568

00:27:08,149 --> 00:27:06,059

talk about the science process a lot

569

00:27:10,190 --> 00:27:08,159

right so predictably explain for example

570

00:27:11,960 --> 00:27:10,200

it's really easy to spot when someone's

571

00:27:14,210 --> 00:27:11,970

not doing science right if they're not

572

00:27:15,129 --> 00:27:14,220

doing predict observe explained then not

573

00:27:17,259 --> 00:27:15,139

doing

574

00:27:19,299 --> 00:27:17,269

certain leaders of the you know of you

575

00:27:21,279 --> 00:27:19,309

know in the world for example ColdFusion

576

00:27:23,710 --> 00:27:21,289

ripping ripping themselves out of the

577

00:27:25,509 --> 00:27:23,720

Paris agreement is not a predictable of

578

00:27:27,099 --> 00:27:25,519

explain discussion exactly it's an

579

00:27:28,960 --> 00:27:27,109

opinion right hmm

580

00:27:30,549 --> 00:27:28,970

but that's that's a but we need to talk

581

00:27:32,710 --> 00:27:30,559

about that because this is affecting us

582

00:27:34,029 --> 00:27:32,720

and we have evidence and we have backing

583

00:27:36,489 --> 00:27:34,039

and we have all of this kind of

584

00:27:38,889 --> 00:27:36,499

conversation about climate conversation

585

00:27:40,810 --> 00:27:38,899

about quantum computing that we need to

586

00:27:42,729 --> 00:27:40,820

be on top of to tell students about it

587

00:27:45,129 --> 00:27:42,739

so they can make the decisions in result

588

00:27:46,299 --> 00:27:45,139

Oh Tom I'm not done not done at all but

589

00:27:48,310 --> 00:27:46,309

you've been talking to us tonight about

590

00:27:50,200 --> 00:27:48,320

music and everything I have been asking

591

00:27:52,269 --> 00:27:50,210

people do you think there's a formula to

592

00:27:53,889 --> 00:27:52,279

popular music that's easy to access to

593

00:27:56,619 --> 00:27:53,899

get a hit song or something like that do

594

00:27:58,570 --> 00:27:56,629

you feel that the scientific formula

595

00:28:01,539 --> 00:27:58,580

that can be applied that go right I've

596

00:28:04,149 --> 00:28:01,549

got a hit song I think Harry is I think

597

00:28:07,060 --> 00:28:04,159

there probably is some songs are

598

00:28:08,680 --> 00:28:07,070

definitely formulaic does anyone come to

599

00:28:10,779 --> 00:28:08,690

mind is their favorite song of yours you

600

00:28:13,419 --> 00:28:10,789

go that's why I like that there's a

601
00:28:16,060 --> 00:28:13,429
great song from the 90s by a band called

602
00:28:18,399 --> 00:28:16,070
custard oh yeah yeah and they had a song

603
00:28:20,200 --> 00:28:18,409
called hit song and they just basically

604
00:28:22,180 --> 00:28:20,210
they're the lyrics where I'm gonna make

605
00:28:23,619 --> 00:28:22,190
me a hit song and I think even the film

606
00:28:24,940 --> 00:28:23,629
clip they've got better-looking people

607
00:28:28,899 --> 00:28:24,950
to be in the film clip for them if I

608
00:28:30,399 --> 00:28:28,909
remember it yeah yeah there are even

609
00:28:32,169 --> 00:28:30,409
songs that call out what's happening

610
00:28:35,859 --> 00:28:32,179
like okay now this is the chorus and the

611
00:28:37,869 --> 00:28:35,869
beat and a drop down and the you know we

612
00:28:39,849 --> 00:28:37,879
have to go for a ride said Fred it would

613
00:28:41,830 --> 00:28:39,859

be a great example anything by the Pet

614

00:28:43,690 --> 00:28:41,840

Shop Boys also another example of stuff

615

00:28:45,339 --> 00:28:43,700

by the numbers yeah but but if you wanna

616

00:28:47,859 --> 00:28:45,349

if you want to you know give people

617

00:28:50,950 --> 00:28:47,869

escape which is what arts is right so

618

00:28:52,779 --> 00:28:50,960

music is escapism in a way you give them

619

00:28:55,330 --> 00:28:52,789

something that they expect so it's it's

620

00:28:57,099 --> 00:28:55,340

verse chorus verse breeds verse chorus

621

00:28:59,139 --> 00:28:57,109

repeat repeat repeat right that's

622

00:29:01,149 --> 00:28:59,149

definitely a formula there do you think

623

00:29:03,249 --> 00:29:01,159

songs that start with the chorus have an

624

00:29:04,899 --> 00:29:03,259

advantage such as dancing queen or

625

00:29:06,700 --> 00:29:04,909

there's no aphrodisiac like loneliness

626

00:29:09,039 --> 00:29:06,710

there's two examples of songs to start

627

00:29:14,680 --> 00:29:09,049

with the chorus that is a great song no

628

00:29:15,879 --> 00:29:14,690

dancing queen oh and the other one I'm

629

00:29:17,830 --> 00:29:15,889

suspecting that maybe that's got

630

00:29:19,539 --> 00:29:17,840

something cuz it bangs in your head from

631

00:29:21,669 --> 00:29:19,549

the get-go what your chorus is well well

632

00:29:23,229 --> 00:29:21,679

maybe it's it's a it's a it's an

633

00:29:24,480 --> 00:29:23,239

adjustment to the theme but the theme is

634

00:29:26,460 --> 00:29:24,490

still there right

635

00:29:28,410 --> 00:29:26,470

so what if you remove all of that you

636

00:29:29,370 --> 00:29:28,420

just end up with this rubbish that you

637

00:29:31,530 --> 00:29:29,380

can hear behind you

638

00:29:33,630 --> 00:29:31,540

or Japanese Noise music which is

639

00:29:36,810 --> 00:29:33,640

literally just noise yeah and that's

640

00:29:39,480 --> 00:29:36,820

removing all of those rules and funnily

641

00:29:40,890 --> 00:29:39,490

enough that's not on the chance that is

642

00:29:42,750 --> 00:29:40,900

fair enough then I played the therm and

643

00:29:43,380 --> 00:29:42,760

tonight for the first time and I really

644

00:29:45,360 --> 00:29:43,390

enjoyed it

645

00:29:47,160 --> 00:29:45,370

Tom won the great things about kids is

646

00:29:50,040 --> 00:29:47,170

they don't know what questions not to

647

00:29:53,820 --> 00:29:50,050

ask exactly so you must get flawed every

648

00:29:55,950 --> 00:29:53,830

day by questions you go yeah I'd tell

649

00:29:57,660 --> 00:29:55,960

kids all the time I tell students too I

650

00:29:59,790 --> 00:29:57,670

love playing a game called confuse a

651
00:30:01,500 --> 00:29:59,800
physicist right you can ask them

652
00:30:03,540 --> 00:30:01,510
fundamental questions and the students

653
00:30:06,540 --> 00:30:03,550
get it but but adults don't right so if

654
00:30:07,980 --> 00:30:06,550
you ask any physicist what is mass right

655
00:30:10,230 --> 00:30:07,990
and the students are like yeah what is

656
00:30:12,600 --> 00:30:10,240
mass you know as adults we know not to

657
00:30:16,230 --> 00:30:12,610
ask that question because I don't know

658
00:30:17,640 --> 00:30:16,240
reason but the students don't so I would

659
00:30:19,200 --> 00:30:17,650
encourage anyone to go and ask a

660
00:30:21,420 --> 00:30:19,210
scientist may decide to say all right

661
00:30:24,210 --> 00:30:21,430
what's mass and the best you'll get is

662
00:30:25,650 --> 00:30:24,220
some hand wavy explanation Wow well it's

663
00:30:29,010 --> 00:30:25,660

this stuff that mess these things are

664

00:30:30,690 --> 00:30:29,020

made of okay what's that we don't know

665

00:30:32,970 --> 00:30:30,700

we don't worry that's what mass is okay

666

00:30:36,870 --> 00:30:32,980

what about what's 95% of the universe

667

00:30:38,430 --> 00:30:36,880

made of hand wavy again we don't know we

668

00:30:40,380 --> 00:30:38,440

literally don't know okay so what about

669

00:30:43,380 --> 00:30:40,390

those you started up with the pulsars

670

00:30:44,670 --> 00:30:43,390

yeah they seem to me like there's some

671

00:30:47,630 --> 00:30:44,680

sort of lighthouses have been put there

672

00:30:50,100 --> 00:30:47,640

by someone for some reason they there's

673

00:30:51,840 --> 00:30:50,110

fixed in space and they're spinning in

674

00:30:54,960 --> 00:30:51,850

space and they don't slow down or speed

675

00:30:56,940 --> 00:30:54,970

up they're very very precise timing

676
00:30:58,740 --> 00:30:56,950
devices and we use them for that right

677
00:31:00,270 --> 00:30:58,750
so we use them to figure out where they

678
00:31:02,460 --> 00:31:00,280
are so that we can then figure out where

679
00:31:04,500 --> 00:31:02,470
other stars are in relation to that well

680
00:31:06,030 --> 00:31:04,510
so really other rate racers might use

681
00:31:07,160 --> 00:31:06,040
them for as well do maybe even put them

682
00:31:09,540 --> 00:31:07,170
there in the first place I would not

683
00:31:11,100 --> 00:31:09,550
just throwing it out there I would not

684
00:31:12,870 --> 00:31:11,110
doubt it if there are other people or

685
00:31:15,750 --> 00:31:12,880
other things around that they would also

686
00:31:17,700 --> 00:31:15,760
use pulsars for that and we use pulses

687
00:31:20,510 --> 00:31:17,710
as timing devices to calibrate our other

688
00:31:23,490 --> 00:31:20,520

timing devices like cesium clocks

689

00:31:25,050 --> 00:31:23,500

and who's your favorite female scientist

690

00:31:26,790 --> 00:31:25,060

again - who you started by talking about

691

00:31:28,830 --> 00:31:26,800

some that have missed out on a gong that

692

00:31:30,750 --> 00:31:28,840

you serve one who's one that would my

693

00:31:34,020 --> 00:31:30,760

favorite is Jocelyn Bell Burnell so she

694

00:31:35,370 --> 00:31:34,030

was the one that discovered pulsars she

695

00:31:37,140 --> 00:31:35,380

didn't get recognized because she was

696

00:31:38,520 --> 00:31:37,150

married to someone at the Union was that

697

00:31:40,380 --> 00:31:38,530

what was the story why didn't she get

698

00:31:41,850 --> 00:31:40,390

hurt so the story is that she wasn't

699

00:31:43,980 --> 00:31:41,860

recognized with the Nobel Prize because

700

00:31:47,310 --> 00:31:43,990

she was a PhD student and PhD students

701
00:31:50,550 --> 00:31:47,320
generally don't get a Nobel Prize now

702
00:31:52,950 --> 00:31:50,560
the research that she did that found the

703
00:31:55,410 --> 00:31:52,960
Pulsar was an appendix to her PhD thesis

704
00:31:57,750 --> 00:31:55,420
so it wasn't even her PhD thesis that

705
00:31:59,370 --> 00:31:57,760
she discovered a pulsar it was something

706
00:32:01,860 --> 00:31:59,380
else and that was the reason given oh

707
00:32:04,620 --> 00:32:01,870
and if your joy division fan the front

708
00:32:06,420 --> 00:32:04,630
cover of the first runners I can't

709
00:32:07,800 --> 00:32:06,430
remember the name of the album Joy

710
00:32:09,300 --> 00:32:07,810
Division I think it's called yes and yep

711
00:32:11,700 --> 00:32:09,310
and it's it bets that's a drawing a

712
00:32:12,480 --> 00:32:11,710
pulsar signals I have I have met Jocelyn

713
00:32:14,850 --> 00:32:12,490

Bell Burnell

714

00:32:17,490 --> 00:32:14,860

recently and she was fascinating to talk

715

00:32:19,110 --> 00:32:17,500

to and she was saying she's not worried

716

00:32:20,940 --> 00:32:19,120

about the Nobel Prize thing because

717

00:32:24,180 --> 00:32:20,950

she's won every other award that's

718

00:32:25,560 --> 00:32:24,190

available so she's kind of got got a lot

719

00:32:27,090 --> 00:32:25,570

of out of not winning the Nobel Prize

720

00:32:29,250 --> 00:32:27,100

because she's won everything else she

721

00:32:31,170 --> 00:32:29,260

recently won a breakthrough science

722

00:32:33,420 --> 00:32:31,180

prize for three million dollars and

723

00:32:36,360 --> 00:32:33,430

donated the entire three million dollars

724

00:32:38,220 --> 00:32:36,370

to increasing diversity in stem which is

725

00:32:40,290 --> 00:32:38,230

fantastic she's a phenomenal human

726

00:32:43,260 --> 00:32:40,300

that's she could have spent a lot of

727

00:32:45,660 --> 00:32:43,270

money on a crappy video done that other

728

00:32:48,330 --> 00:32:45,670

guys you could have to manpower guys out

729

00:32:49,890 --> 00:32:48,340

there and everything did indeed that's a

730

00:32:51,510 --> 00:32:49,900

cool okay now where can we find out more

731

00:32:53,370 --> 00:32:51,520

about what you do what Sydney Uni does

732

00:32:55,950 --> 00:32:53,380

from the website you might be at yes so

733

00:32:57,630 --> 00:32:55,960

I'm on a few places so at Sydney Uni on

734

00:32:59,190 --> 00:32:57,640

the the science communicator I get a lot

735

00:33:03,100 --> 00:32:59,200

of calls about you know

736

00:33:04,870 --> 00:33:03,110

science and physics and stuff and I pop

737

00:33:06,610 --> 00:33:04,880

up around the place in science week I'm

738

00:33:08,350 --> 00:33:06,620

generally you know around it finds you a

739

00:33:09,850 --> 00:33:08,360

fellow podcaster tell us about that

740

00:33:12,669 --> 00:33:09,860

where can we find that correct correct

741

00:33:14,740 --> 00:33:12,679

so I my podcast is called stem Punk it's

742

00:33:16,029 --> 00:33:14,750

me and a couple of other science

743

00:33:20,289 --> 00:33:16,039

communicators we sit down we chat about

744

00:33:22,600 --> 00:33:20,299

science and stem hence my stem t-shirt

745

00:33:24,159 --> 00:33:22,610

and we have trivia nights and live

746

00:33:25,899 --> 00:33:24,169

events and all that sort of stuff

747

00:33:27,100 --> 00:33:25,909

we interview lots of people one of my

748

00:33:28,810 --> 00:33:27,110

favorite people have interviewed is

749

00:33:31,899 --> 00:33:28,820

Brian Schmidt Nobel Prize laureate

750

00:33:34,120 --> 00:33:31,909

Frenchman was my old lecturer also a

751
00:33:36,520 --> 00:33:34,130
Margret Wertheim who is a Sydney Morning

752
00:33:38,890 --> 00:33:36,530
Herald journalist in science she wrote a

753
00:33:42,549 --> 00:33:38,900
book called my thakura's trousers all

754
00:33:44,140 --> 00:33:42,559
about women in science yeah so yeah that

755
00:33:45,039 --> 00:33:44,150
that's that's what I do I'm also on

756
00:33:48,940 --> 00:33:45,049
Twitter

757
00:33:50,649 --> 00:33:48,950
Gordo's is my twitter GOI de a you said

758
00:33:51,760 --> 00:33:50,659
rightlook thank you guys for coming and

759
00:33:53,230 --> 00:33:51,770
talking to us today and it's great and

760
00:33:54,610 --> 00:33:53,240
which people are still making BP crazy

761
00:33:55,960 --> 00:33:54,620
noises I'll just put a few of them on

762
00:34:23,800 --> 00:33:55,970
the tape and it's great meeting it up

763
00:34:29,300 --> 00:34:27,169

hey fellow skeptics in Medford here with

764

00:34:31,250 --> 00:34:29,310

Celeste reward your friendly host of

765

00:34:33,200 --> 00:34:31,260

starting the strange a podcast that

766

00:34:36,440 --> 00:34:33,210

looks at topics ranging from legends

767

00:34:38,389 --> 00:34:36,450

panics and cryptids 3d myths psychology

768

00:34:40,490 --> 00:34:38,399

and folklore breaking things down and

769

00:34:42,680 --> 00:34:40,500

picking things apart as we skeptics do

770

00:34:45,260 --> 00:34:42,690

we bring a few different perspectives on

771

00:34:47,360 --> 00:34:45,270

things flusher for example is a witty

772

00:34:49,760 --> 00:34:47,370

cartoonist and Ben is a brilliant writer

773

00:34:51,440 --> 00:34:49,770

and longtime skeptical investigator we

774

00:34:53,960 --> 00:34:51,450

don't always agree but we have fun

775

00:34:56,210 --> 00:34:53,970

trying and we learn new things join us

776

00:34:58,550 --> 00:34:56,220

for new topics every week or two or

777

00:35:01,220 --> 00:34:58,560

browse our backlog of evergreen episodes

778

00:35:03,590 --> 00:35:01,230

available on iTunes and all your

779

00:35:25,420 --> 00:35:03,600

podcasts feeding troughs squaring the

780

00:35:28,310 --> 00:35:25,430

strange take care strangers yet another

781

00:35:29,960 --> 00:35:28,320

web page that's been brought to my

782

00:35:31,790 --> 00:35:29,970

attention by highly Robertson from the

783

00:35:34,190 --> 00:35:31,800

Northern Rivers vaccination supporters

784

00:35:38,150 --> 00:35:34,200

this comes from the Australian Medical

785

00:35:46,270 --> 00:35:38,160

Association and it's their position

786

00:35:53,450 --> 00:35:49,390

published on the 20th of November 2018

787

00:35:55,640 --> 00:35:53,460

complementary medicine revised 2018 this

788

00:35:57,970 --> 00:35:55,650

document outlines the Australian of

789

00:36:01,100 --> 00:35:57,980

Medical Association's position on

790

00:36:02,960 --> 00:36:01,110

complementary medicine

791

00:36:05,910 --> 00:36:02,970

[Music]

792

00:36:08,280 --> 00:36:05,920

the introduction complimentary medicine

793

00:36:10,770 --> 00:36:08,290

includes a wide range of products and

794

00:36:13,020 --> 00:36:10,780

treatments with therapeutic claims that

795

00:36:16,650 --> 00:36:13,030

are not presently considered to be part

796

00:36:19,110 --> 00:36:16,660

of conventional medicine complementary

797

00:36:22,140 --> 00:36:19,120

medicines include herbal medicines some

798

00:36:24,890 --> 00:36:22,150

vitamin and mineral supplements other

799

00:36:27,450 --> 00:36:24,900

nutritional supplements homeopathic

800

00:36:30,030 --> 00:36:27,460

formulations and traditional medicines

801
00:36:32,150 --> 00:36:30,040
such as Ayurvedic medicines and

802
00:36:34,170 --> 00:36:32,160
traditional Chinese medicines

803
00:36:36,660 --> 00:36:34,180
complementary therapies include

804
00:36:40,380 --> 00:36:36,670
acupuncture chiropractic Osteopathy

805
00:36:42,110 --> 00:36:40,390
naturopathy and meditation in this

806
00:36:44,640 --> 00:36:42,120
position statement the term

807
00:36:47,240 --> 00:36:44,650
complementary medicine refers to both

808
00:36:50,100 --> 00:36:47,250
complementary medicines and therapies

809
00:36:52,980 --> 00:36:50,110
the use of complementary medicine in

810
00:36:54,890 --> 00:36:52,990
Australia is considerable and increasing

811
00:36:57,900 --> 00:36:54,900
the Australian Medical Association

812
00:37:00,660 --> 00:36:57,910
recognizes that evidence-based aspects

813
00:37:02,970 --> 00:37:00,670

of complementary medicine can be part of

814

00:37:05,610 --> 00:37:02,980

patient care by a medical practitioner

815

00:37:07,950 --> 00:37:05,620

there is limited efficacy evidence

816

00:37:10,620 --> 00:37:07,960

regarding most complementary medicine

817

00:37:13,350 --> 00:37:10,630

and some have the potential to cause

818

00:37:15,810 --> 00:37:13,360

adverse reactions or interact with

819

00:37:18,330 --> 00:37:15,820

conventional medicine unproven

820

00:37:20,670 --> 00:37:18,340

complementary medicines and therapies

821

00:37:23,600 --> 00:37:20,680

can also pose a risk to patient health

822

00:37:26,940 --> 00:37:23,610

either directly through misuse or

823

00:37:29,640 --> 00:37:26,950

indirectly if a patient defers seeking

824

00:37:31,710 --> 00:37:29,650

medical advice as an aside that is

825

00:37:36,570 --> 00:37:31,720

certainly the case with something like

826

00:37:40,290 --> 00:37:36,580

homeopathy where the potion itself poses

827

00:37:43,260 --> 00:37:40,300

very little risk but taking it instead

828

00:37:46,790 --> 00:37:43,270

of seeking proper advice does pose risk

829

00:37:49,530 --> 00:37:46,800

we read on consumer investment in

830

00:37:52,200 --> 00:37:49,540

unproven medicines and therapies also

831

00:37:55,650 --> 00:37:52,210

risks patients being unable to afford

832

00:37:58,980 --> 00:37:55,660

necessary evidence-based treatment when

833

00:38:01,590 --> 00:37:58,990

there are out-of-pocket costs children

834

00:38:04,170 --> 00:38:01,600

are a vulnerable population group due to

835

00:38:07,050 --> 00:38:04,180

the complexities of diagnosing and

836

00:38:09,720 --> 00:38:07,060

treating illness in children a medical

837

00:38:12,090 --> 00:38:09,730

practitioner should inform any diagnosis

838

00:38:14,030 --> 00:38:12,100

and ongoing treatment plan including the

839

00:38:18,030 --> 00:38:14,040

use of complementary medicine

840

00:38:19,680 --> 00:38:18,040

research there is a substantial gap

841

00:38:22,290 --> 00:38:19,690

between the use of complementary

842

00:38:25,470 --> 00:38:22,300

medicine and the evidence to support

843

00:38:27,510 --> 00:38:25,480

that use evidence-based scientific

844

00:38:30,240 --> 00:38:27,520

research in the form of randomized

845

00:38:32,130 --> 00:38:30,250

controlled trials is required to

846

00:38:34,800 --> 00:38:32,140

validate complementary medicines and

847

00:38:37,740 --> 00:38:34,810

therapies for efficacy safety quality

848

00:38:40,440 --> 00:38:37,750

and cost effectiveness so that

849

00:38:43,500 --> 00:38:40,450

practitioners and consumers can evaluate

850

00:38:46,890 --> 00:38:43,510

the potential benefits and any adverse

851
00:38:48,570 --> 00:38:46,900
effects funding third party funding

852
00:38:50,880 --> 00:38:48,580
should only provide benefits for

853
00:38:53,070 --> 00:38:50,890
complementary therapies if they are

854
00:38:56,820 --> 00:38:53,080
supported by good quality scientific

855
00:38:59,610 --> 00:38:56,830
evidence of safety and efficacy medical

856
00:39:02,070 --> 00:38:59,620
practitioners medical practitioners

857
00:39:03,840 --> 00:39:02,080
should have access to education about

858
00:39:06,540 --> 00:39:03,850
complementary medicine in their

859
00:39:09,320 --> 00:39:06,550
undergraduate vocational and further

860
00:39:12,180 --> 00:39:09,330
education to provide advice to patients

861
00:39:14,070 --> 00:39:12,190
they should be informed of the level of

862
00:39:16,620 --> 00:39:14,080
scientific evidence for both benefits

863
00:39:18,480 --> 00:39:16,630

and adverse reactions including

864

00:39:20,130 --> 00:39:18,490

potential interactions with other

865

00:39:22,650 --> 00:39:20,140

medicines the Australian Medical

866

00:39:24,390 --> 00:39:22,660

Association recognizes that some medical

867

00:39:25,950 --> 00:39:24,400

practitioners choose to undertake

868

00:39:29,010 --> 00:39:25,960

additional training in complementary

869

00:39:30,570 --> 00:39:29,020

medicines and therapies and include them

870

00:39:32,630 --> 00:39:30,580

as part of their everyday practice

871

00:39:35,310 --> 00:39:32,640

medical practitioners should

872

00:39:37,410 --> 00:39:35,320

specifically ask patients whether they

873

00:39:39,600 --> 00:39:37,420

are using complementary medicines or

874

00:39:42,390 --> 00:39:39,610

therapies in order to appropriately

875

00:39:44,820 --> 00:39:42,400

manage their medical treatment medical

876
00:39:46,770 --> 00:39:44,830
practitioners should be able to explain

877
00:39:48,960 --> 00:39:46,780
the level of evidence for all medicines

878
00:39:52,580 --> 00:39:48,970
and therapies they utilize to help

879
00:39:54,570 --> 00:39:52,590
patients make an informed choice it is

880
00:39:57,800 --> 00:39:54,580
acknowledged that some medical

881
00:40:00,900 --> 00:39:57,810
treatments have a low level of evidence

882
00:40:02,700 --> 00:40:00,910
consumers consumers should have access

883
00:40:04,590 --> 00:40:02,710
to accurate information and and

884
00:40:06,390 --> 00:40:04,600
education about the level of evidence

885
00:40:08,300 --> 00:40:06,400
for complementary medicines and

886
00:40:11,460 --> 00:40:08,310
therapies in order to make well-informed

887
00:40:14,400 --> 00:40:11,470
choices this should include the risks

888
00:40:17,340 --> 00:40:14,410

and costs of delaying conventional

889

00:40:19,590 --> 00:40:17,350

treatment consumers should also be made

890

00:40:22,080 --> 00:40:19,600

aware of the potential financial impact

891

00:40:24,510 --> 00:40:22,090

of diverting their income from

892

00:40:26,320 --> 00:40:24,520

evidence-based treatment in favor of

893

00:40:29,710 --> 00:40:26,330

unproven alternative med

894

00:40:32,110 --> 00:40:29,720

and therapies consumer information and

895

00:40:34,960 --> 00:40:32,120

education should stress the importance

896

00:40:37,240 --> 00:40:34,970

of continuing to consult medical

897

00:40:40,000 --> 00:40:37,250

practitioners in relation to medical

898

00:40:42,220 --> 00:40:40,010

conditions and health concerns it is

899

00:40:43,750 --> 00:40:42,230

important that patients inform their

900

00:40:45,850 --> 00:40:43,760

medical practitioner about any

901
00:40:50,910 --> 00:40:45,860
complementary medicines or therapies

902
00:40:53,620 --> 00:40:50,920
they are using regulation of medicines

903
00:40:56,290 --> 00:40:53,630
the majority of complementary medicines

904
00:40:58,630 --> 00:40:56,300
do not meet the same standard of safety

905
00:41:01,720 --> 00:40:58,640
quality and efficacy as mainstream

906
00:41:04,210 --> 00:41:01,730
medicines as they are not rigorously

907
00:41:06,490 --> 00:41:04,220
tested information about the level of

908
00:41:08,310 --> 00:41:06,500
testing and evidence should be easily

909
00:41:10,990 --> 00:41:08,320
accessible by medical practitioners

910
00:41:13,030 --> 00:41:11,000
consumers and complementary medicine

911
00:41:16,300 --> 00:41:13,040
practitioners in the absence of

912
00:41:18,910 --> 00:41:16,310
sufficient efficacy data it is essential

913
00:41:21,430 --> 00:41:18,920

that there be clear and true statements

914

00:41:23,800 --> 00:41:21,440

regarding the efficacy and standards of

915

00:41:26,650 --> 00:41:23,810

evidence relied on including accurate

916

00:41:30,030 --> 00:41:26,660

labeling government agencies such as the

917

00:41:32,470 --> 00:41:30,040

Therapeutic Goods Administration TGA and

918

00:41:34,540 --> 00:41:32,480

educational bodies such as the National

919

00:41:37,390 --> 00:41:34,550

prescribing service should ensure

920

00:41:39,880 --> 00:41:37,400

information on safety quality efficacy

921

00:41:42,100 --> 00:41:39,890

and cost-effectiveness of complementary

922

00:41:44,760 --> 00:41:42,110

medicines is readily available to

923

00:41:50,200 --> 00:41:44,770

consumers and health practitioners

924

00:41:53,200 --> 00:41:50,210

should ensure they promptly report any

925

00:41:57,670 --> 00:41:53,210

adverse events they suspect are caused

926
00:42:00,160 --> 00:41:57,680
by complementary medicine to the TGA the

927
00:42:03,910 --> 00:42:00,170
Australian Medical Association supports

928
00:42:08,170 --> 00:42:03,920
the TGA x' public database of medicine

929
00:42:10,690 --> 00:42:08,180
adverse events notifications regulation

930
00:42:13,000 --> 00:42:10,700
of practitioners there should be

931
00:42:14,620 --> 00:42:13,010
appropriate regulation of complementary

932
00:42:17,490 --> 00:42:14,630
medicine practitioners and their

933
00:42:19,720 --> 00:42:17,500
activities regulations should ensure

934
00:42:22,810 --> 00:42:19,730
complementary medicine practitioners

935
00:42:25,960 --> 00:42:22,820
cannot claim expertise beyond their

936
00:42:28,360 --> 00:42:25,970
scope of practice complementary medicine

937
00:42:31,270 --> 00:42:28,370
practitioners should not claim to be

938
00:42:34,090 --> 00:42:31,280

able to make a diagnosis of illness for

939

00:42:36,700 --> 00:42:34,100

people that the medical profession does

940

00:42:41,160 --> 00:42:36,710

not believe are suffering from a medical

941

00:42:43,090 --> 00:42:41,170

condition registered health

942

00:42:45,100 --> 00:42:43,100

registration of health disciplines

943

00:42:47,350 --> 00:42:45,110

through the process of state or

944

00:42:51,310 --> 00:42:47,360

territory registration should be

945

00:42:53,560 --> 00:42:51,320

dependent on a the discipline being

946

00:42:57,600 --> 00:42:53,570

supported by accepted scientific

947

00:43:00,100 --> 00:42:57,610

evidence or safety and efficacy and B

948

00:43:03,090 --> 00:43:00,110

registrants completing an approved

949

00:43:06,940 --> 00:43:03,100

course of training at an accredited

950

00:43:09,250 --> 00:43:06,950

institution registered health

951
00:43:11,260 --> 00:43:09,260
practitioners must not depart from the

952
00:43:14,380 --> 00:43:11,270
scope of practice regulated by the

953
00:43:16,390 --> 00:43:14,390
relevant registration board non

954
00:43:19,150 --> 00:43:16,400
registered health and complementary

955
00:43:21,490 --> 00:43:19,160
medicine practitioners there must be

956
00:43:24,130 --> 00:43:21,500
effective regulation of health and

957
00:43:25,660 --> 00:43:24,140
complementary medicine practitioners for

958
00:43:28,570 --> 00:43:25,670
whom there is no state-based

959
00:43:30,280 --> 00:43:28,580
registration arrangement the Australian

960
00:43:32,890 --> 00:43:30,290
Medical Association supports the

961
00:43:35,260 --> 00:43:32,900
National Code of Conduct for health care

962
00:43:37,630 --> 00:43:35,270
workers provided by the Council of

963
00:43:40,120 --> 00:43:37,640

Australian governments and enacted in

964

00:43:42,220 --> 00:43:40,130

law in each state and territory the

965

00:43:43,720 --> 00:43:42,230

national code requires non registered

966

00:43:45,460 --> 00:43:43,730

health and complementary medicine

967

00:43:48,220 --> 00:43:45,470

practitioners to observe a code of

968

00:43:50,830 --> 00:43:48,230

practice including that they must not

969

00:43:53,740 --> 00:43:50,840

provide care that is outside their

970

00:43:56,470 --> 00:43:53,750

experience or training it provides a

971

00:43:58,780 --> 00:43:56,480

mechanism to apply sanctions for

972

00:44:01,240 --> 00:43:58,790

breaching the code including a ban on

973

00:44:04,350 --> 00:44:01,250

practice as well as mutual recognition

974

00:44:07,090 --> 00:44:04,360

of prohibition orders across Australia

975

00:44:09,280 --> 00:44:07,100

the Australian Medical Association also

976
00:44:12,100 --> 00:44:09,290
supports the establishment of a national

977
00:44:14,350 --> 00:44:12,110
public register of non registered health

978
00:44:17,350 --> 00:44:14,360
and complementary medicine practitioners

979
00:44:19,360 --> 00:44:17,360
who are subject of a banning order in

980
00:44:21,250 --> 00:44:19,370
their state or territory to assist

981
00:44:24,280 --> 00:44:21,260
employers and the general public

982
00:44:28,140 --> 00:44:24,290
identify unethical and incompetent

983
00:44:30,250 --> 00:44:28,150
practitioners misleading use of titles

984
00:44:33,670 --> 00:44:30,260
non-medical health and complementary

985
00:44:38,410 --> 00:44:33,680
medicine practitioners should not use

986
00:44:42,520 --> 00:44:38,420
the title doctor or dr unless such

987
00:44:45,130 --> 00:44:42,530
persons a possess a doctorate recognised

988
00:44:46,960 --> 00:44:45,140

by the appropriate registration board in

989

00:44:51,610 --> 00:44:46,970

the state or territory in which they

990

00:44:53,800 --> 00:44:51,620

practice and be ensure that their use of

991

00:44:56,320 --> 00:44:53,810

the title is always accompanied

992

00:45:00,160 --> 00:44:56,330

by information confirming that they are

993

00:45:02,920 --> 00:45:00,170

not medical practitioners non-medical

994

00:45:07,330 --> 00:45:02,930

health practitioners should not use the

995

00:45:09,880 --> 00:45:07,340

titles surgeon or physician unless they

996

00:45:12,490 --> 00:45:09,890

are a registered of the Medical Board of

997

00:45:14,380 --> 00:45:12,500

Australia use of these titles by

998

00:45:17,020 --> 00:45:14,390

non-medical healthcare practitioners

999

00:45:18,520 --> 00:45:17,030

carries significant risk that members of

1000

00:45:21,550 --> 00:45:18,530

the public will believe they are

1001
00:45:24,310 --> 00:45:21,560
consulting a medical practitioner when

1002
00:45:27,340 --> 00:45:24,320
they are not and as an aside I've

1003
00:45:29,980 --> 00:45:27,350
certainly seen cases along these lines

1004
00:45:33,900 --> 00:45:29,990
where people are under the impression

1005
00:45:36,880 --> 00:45:33,910
they are consulting real health

1006
00:45:39,790 --> 00:45:36,890
practitioners real medically trained

1007
00:45:42,870 --> 00:45:39,800
health practitioners when they're not we

1008
00:45:45,520 --> 00:45:42,880
read on regulation of advertising

1009
00:45:47,710 --> 00:45:45,530
advertising of services by complementary

1010
00:45:50,130 --> 00:45:47,720
medicine practitioners must not claim

1011
00:45:52,900 --> 00:45:50,140
expertise in medical diagnosis and

1012
00:45:55,390 --> 00:45:52,910
treatment nor should they attempt to

1013
00:45:58,420 --> 00:45:55,400

dissuade patients from seeking the

1014

00:46:00,580 --> 00:45:58,430

advice of medical practitioners well I

1015

00:46:03,960 --> 00:46:00,590

keep interrupting myself but there have

1016

00:46:07,390 --> 00:46:03,970

been cases where these complementary

1017

00:46:10,090 --> 00:46:07,400

medicine practitioners will dissuade

1018

00:46:12,730 --> 00:46:10,100

people from seeking real advice from

1019

00:46:15,250 --> 00:46:12,740

doctors because they implant the idea

1020

00:46:18,070 --> 00:46:15,260

that doctors are part of the global

1021

00:46:20,590 --> 00:46:18,080

conspiracy or they're only in it for the

1022

00:46:21,690 --> 00:46:20,600

money your doctors make you ill and on

1023

00:46:25,300 --> 00:46:21,700

it goes

1024

00:46:29,620 --> 00:46:25,310

direct to consumer advertising must not

1025

00:46:31,570 --> 00:46:29,630

a exploit patients vulnerability or lack

1026
00:46:35,650 --> 00:46:31,580
of medical or health related knowledge

1027
00:46:38,290 --> 00:46:35,660
be attempt to induce unjustified fear or

1028
00:46:40,570 --> 00:46:38,300
concern in patients consumers regarding

1029
00:46:43,600 --> 00:46:40,580
their own health in order to increase

1030
00:46:46,840 --> 00:46:43,610
demand for the advertisers products or

1031
00:46:49,690 --> 00:46:46,850
services see encourage inappropriate

1032
00:46:52,420 --> 00:46:49,700
self diagnosis or treatment or in any

1033
00:46:55,210 --> 00:46:52,430
way discourage patients from seeking the

1034
00:46:57,850 --> 00:46:55,220
advice from their medical practitioner d

1035
00:47:00,550 --> 00:46:57,860
attempted to promote an unreasonable

1036
00:47:03,070 --> 00:47:00,560
expectation as to the applicability or

1037
00:47:05,890 --> 00:47:03,080
efficacy of the advertised product or

1038
00:47:07,460 --> 00:47:05,900

service e create inappropriate use of

1039

00:47:12,590 --> 00:47:07,470

goods or services

1040

00:47:16,670 --> 00:47:12,600

F make unsubstantiated claims or G be

1041

00:47:19,100 --> 00:47:16,680

false misleading or deceptive a sponsor

1042

00:47:22,010 --> 00:47:19,110

making a therapeutic claim about food

1043

00:47:25,150 --> 00:47:22,020

should also be required to seek the same

1044

00:47:28,550 --> 00:47:25,160

advertising approval as for other

1045

00:47:29,900 --> 00:47:28,560

therapeutic products mechanisms for

1046

00:47:37,450 --> 00:47:29,910

making complaints about advertising

1047

00:47:42,920 --> 00:47:40,820

and that was the Australian Medical

1048

00:47:47,180 --> 00:47:42,930

Association's position statement on

1049

00:47:49,160 --> 00:47:47,190

complementary medicine 2018 and as ever

1050

00:47:53,070 --> 00:47:49,170

there will be a link in this week's show

1051
00:48:14,780 --> 00:48:11,760

[Music]

1052
00:48:16,670 --> 00:48:14,790

[Applause]

1053
00:48:18,380 --> 00:48:16,680

thank you for listening to the skeptics

1054
00:48:21,140 --> 00:48:18,390

and I'm still hanging out here on Market

1055
00:48:22,460 --> 00:48:21,150

Street enjoying the passing parade of

1056
00:48:27,860 --> 00:48:22,470

people doing their Christmas shopping

1057
00:48:32,720 --> 00:48:30,380

thank you to everybody who's stuck with

1058
00:48:35,150 --> 00:48:32,730

the skeptic son now for 10 years if

1059
00:48:37,070 --> 00:48:35,160

you're new thank you for listening thank

1060
00:48:39,260 --> 00:48:37,080

you a big thank you to those people who

1061
00:48:42,920 --> 00:48:39,270

subscribed by patreon or PayPal at

1062
00:48:46,100 --> 00:48:42,930

skeptics and TV and long-term listeners

1063
00:48:48,050 --> 00:48:46,110

will know without those contributions

1064

00:48:50,630 --> 00:48:48,060

without contributions from people like

1065

00:48:51,440 --> 00:48:50,640

you five dollars a month ten dollars a

1066

00:48:53,690 --> 00:48:51,450

month or whatever

1067

00:48:56,330 --> 00:48:53,700

there simply would be no skeptics own

1068

00:48:58,700 --> 00:48:56,340

and thank you to the people who go over

1069

00:49:00,740 --> 00:48:58,710

to Mina comdataís you to listen the

1070

00:49:05,120 --> 00:49:00,750

Maenads podcasts bunga bunga and other

1071

00:49:07,760 --> 00:49:05,130

podcasts and a reminder the free the

1072

00:49:11,060 --> 00:49:07,770

free 20 19 may not calendar is available

1073

00:49:15,360 --> 00:49:11,070

Maina comdataís you thank you to all the

1074

00:49:21,570 --> 00:49:17,490

and this is almost the last show for

1075

00:49:23,970 --> 00:49:21,580

2018 one water sneak in before 2019

1076

00:49:25,890 --> 00:49:23,980

comes around and next week I'll be

1077

00:49:27,780 --> 00:49:25,900

having a commentary about predictions

1078

00:49:28,640 --> 00:49:27,790

and the future and new age and all that

1079

00:49:32,970 --> 00:49:28,650

sort of stuff

1080

00:49:35,430 --> 00:49:32,980

but for this week from a very nice

1081

00:49:42,180 --> 00:49:35,440

wintery San Francisco this is Richard

1082

00:49:47,609 --> 00:49:44,710

you've been listening to the skeptic

1083

00:49:54,310 --> 00:49:47,619

zone podcast please visit our website at

1084

00:49:57,810 --> 00:49:54,320

wwlp.com tax and to access the bat

1085

00:50:00,460 --> 00:49:57,820

catalog of episodes going back to 2008

1086

00:50:03,760 --> 00:50:00,470

you can follow the skeptic zone podcast

1087

00:50:06,040 --> 00:50:03,770

on twitter at skeptic zone visit our

1088

00:50:09,400 --> 00:50:06,050

facebook page or leave a review on

1089

00:50:12,760 --> 00:50:09,410

itunes you can also support the skeptic

1090

00:50:15,130 --> 00:50:12,770

zone via patreon or PayPal the skeptic

1091

00:50:17,080 --> 00:50:15,140

zone podcast is an independent

1092

00:50:19,270 --> 00:50:17,090

production reviews and opinions

1093

00:50:21,430 --> 00:50:19,280

expressed on the skeptic zone are not

1094

00:50:24,360 --> 00:50:21,440

necessarily those of Australian skeptics

1095

00:50:37,970 --> 00:50:24,370

or any other skeptical organisation

1096

00:50:45,809 --> 00:50:41,370

I'm here to San Francisco's famous pier

1097

00:50:49,349 --> 00:50:45,819

39 and there are about 4 200 sea lines

1098

00:50:50,910 --> 00:50:49,359

basking out here on pontoons and for the

1099

00:50:55,319 --> 00:50:50,920

first time in a long time there are more

1100

00:50:57,359 --> 00:50:55,329

sea lines here than tourists I'm sitting

1101

00:51:00,270 --> 00:50:57,369

on a sort of large wooden viewing

1102

00:51:02,760 --> 00:51:00,280

platform and I couldn't think of a

1103

00:51:06,599 --> 00:51:02,770

better place to play this week's dice

1104

00:51:08,250 --> 00:51:06,609

game we have a 10 sided down with me I'm

1105

00:51:10,140 --> 00:51:08,260

gonna roll it three times and I'm gonna

1106

00:51:14,870 --> 00:51:10,150

see if skeptics earnestness come use

1107

00:51:18,380 --> 00:51:14,880

their psychic predicting power so

1108

00:51:23,030 --> 00:51:18,390

everybody think of a number from

1109

00:51:27,290 --> 00:51:23,040

1 to 10 thinking maybe the sea lions are

1110

00:51:27,300 --> 00:51:31,380

first number seven

1111

00:51:35,400 --> 00:51:33,510

we can give another number or the same

1112

00:51:39,380 --> 00:51:35,410

number if you wish here we go rolling it

1113

00:51:45,360 --> 00:51:43,200

scum up six so seven and six

1114

00:51:51,720 --> 00:51:45,370

use your predicting power one more time

1115

00:51:56,580 --> 00:51:51,730

here we go nearly nearly fell off the

1116

00:52:02,220 --> 00:51:56,590

platform it's a nine seven six and nine